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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
841 Chestnut Building
Philadelphia, Pennsylvania 19107

SUBJECT: Review of Analytical QA Report, Quarry #4 Samples, Crater Resources Site **DATE:** 11-23-94

FROM: Jennifer Hubbard, Toxicologist
Technical Support Section (3HW13)

TO: Fred MacMillan, RPM
Eastern Pennsylvania Section (3HW22)

The above document has been reviewed, and the following comments are offered:

1. Sample quantitation limits will be needed in order to perform risk assessment on these samples.
2. Sample PB-2 (20'-22') contained PAHs at concentrations that correspond to exceedances of a 1E-4 cancer risk for both residents and industrial workers. Such levels may trigger Removal actions. However, results of this type were reported in only one of six samples, and the 20-foot depth most probably renders the chemicals unavailable for direct contact. At least, this sample appears to indicate a "hot spot."

This sample was missing from the original Pennoni Associates report ("Environmental Site Assessment for Renaissance South," Nov. 1993). Not only were the analytical results not included, but no boring log or sample location was given for this sample. The report even went so far as to say that only four borings (PB-1, PB-3, PB-4, and PB-5) were performed. The sample location would have to be verified before use of these data in the RI.

3. No inorganic matrix spike, lab duplicate, or ICP serial dilution was run on a sample from the site. CRL should be consulted as to the usability of the inorganic data in light of this.
4. Even if usable for the RI, these data should be supplemented with surface soil data from Quarry 4, since they represent only subsurface soil.

If you have any questions concerning this review, please contact me at x1309.

cc: Eric Johnson (3HW13) Bruce Rundell (3HW13)

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